



# Taipei Tech

Est. 1912

*Cultivating the Entrepreneurs of Tomorrow*

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**National Taipei University of Technology**

## Proud History

## Vibrant Future

Taipei Tech was founded at its present location in central Taipei in 1912, making it one of the first higher educational institutions in Taiwan. Though it then consisted of only three departments (Woodcraft, Metalworking, and Electrical Engineering), the institute pioneered industrial education in Taiwan. Within six years, mechanical engineering, applied chemistry, and civil engineering were added to the programs offered. Today, there are over thirteen thousand students at Taipei Tech, studying in seventy-nine programs at seven colleges: Mechanical and Electrical Engineering, Electrical Engineering and Computer Science, Engineering, Management, Design, Humanities and Social Sciences, and iFIRST (the Innovation of Frontier Institute of Research for Science and Technology).

Taipei Tech has since produced some of the most influential entrepreneurs, leaders, educators, and researchers in the science and industrial fields, and is known as the birthplace for future entrepreneurs. The University is also engaged in a number of local and international projects related to the UN Sustainable Development Goals (SDGs) and University Social Responsibility (USR). Through making SDGs and USR the key initiatives of Taipei Tech's medium- and long-term plans, we aim to be one of the world's greenest, most inclusive, and socially-aware universities.



## Words from the President

*Since my installation as the President of Taipei Tech, reaffirming our centennial legacy and the spirit of technology-enabled social development has been my and the Taipei Tech family's steadfast pursuit. Our goal is to empower our students to be integral actors in the workforce of the future, as both developers and early adopters, by harnessing the power of education, knowledge, and scientific and technological advances in all spheres. The path to reach such a goal, admittedly, can be rough and bumpy, full of unknown obstacles, with which we pledge to grapple. We are resolute that with unfaltering determination, we will build an inclusive educational environment, establishing a new platform of solidarity, global collaboration and partnership. My hope for all Taipei Tech members, partners, and friends is that we be bound together by this mission of utilizing and sharing our great experiences and expertise, helping each one of us to tap into our full potential and to traverse uncharted territories.*

Sea-Fue Wang

President, Taipei Tech



# The Birthplace of Future Entrepreneurs

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10%

of founders, board members, & CEOs of Taiwan's publicly traded companies are Taipei Tech alumni



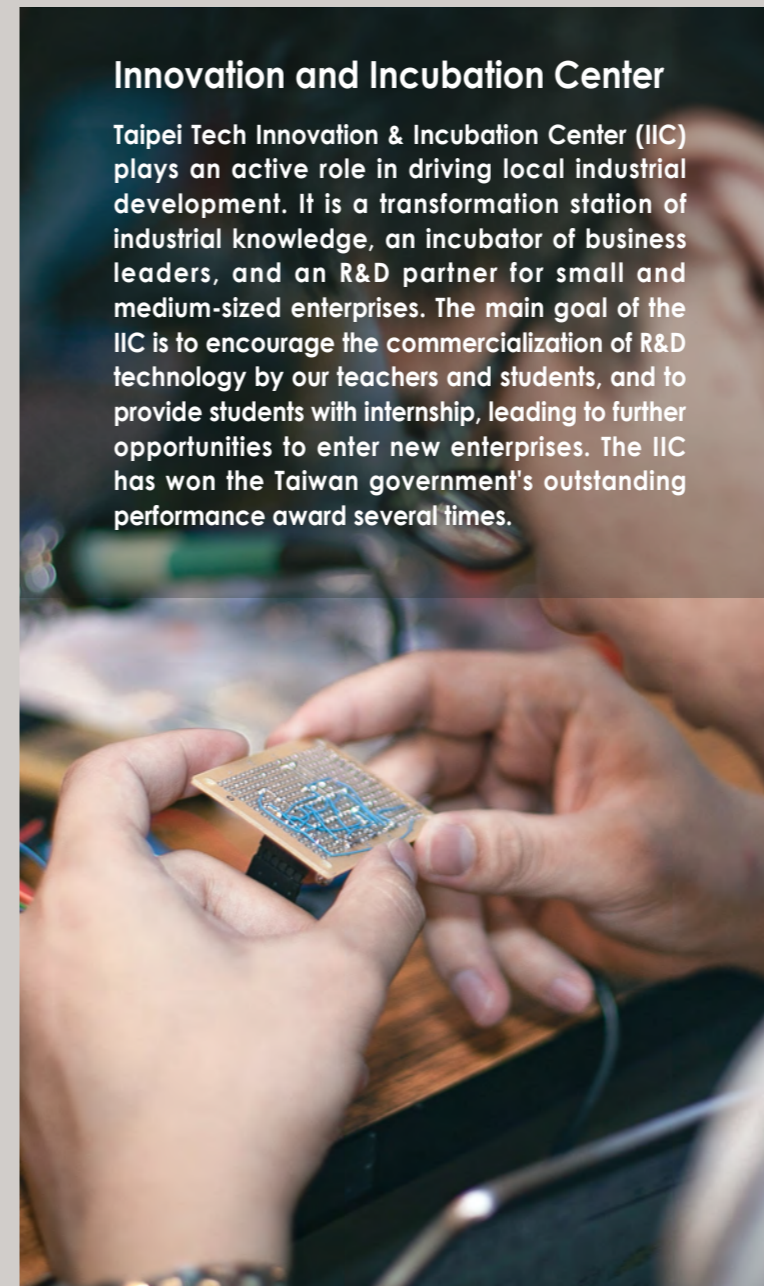
20

startup companies are backed by Taipei Tech every year

Entrepreneurship is deeply integrated with everything we do at Taipei Tech. Students, in addition to their major courses, take general studies courses in business and are encouraged to take part in talks and competitions designed to spark their entrepreneurship spirit. Our Innovation & Incubation Center provides resources and administrative support for a number of startup companies each year. A group of Taipei Tech alumni now serving as high executives in Taiwan's publicly traded companies have also formed Taipei Tech Development Inc., a startup accelerator, that aims to help Taipei Tech students and faculty turn their ideas and research results into profitable companies.

### Innovation and Incubation Center

Taipei Tech Innovation & Incubation Center (IIC) plays an active role in driving local industrial development. It is a transformation station of industrial knowledge, an incubator of business leaders, and an R&D partner for small and medium-sized enterprises. The main goal of the IIC is to encourage the commercialization of R&D technology by our teachers and students, and to provide students with internship, leading to further opportunities to enter new enterprises. The IIC has won the Taiwan government's outstanding performance award several times.



### Cross-cultural Engagement

Taipei Tech was tasked by the government to host the Asia-Pacific Youth Forum on Digital Innovation and Entrepreneurship. The event invited entrepreneurs and entrepreneurs-to-be from various Asia-Pacific economies to share experiences and know-how on building a successful business.



# Research Driven by Practical Applications

**Over 1 billion (NTD)** in funding was granted by the Ministry of Education for research and educational purposes

**500 million (NTD)** are generated annually by Taipei Tech industry-academia research projects

**430** licensing- and production-ready patents are held by Taipei Tech faculty

We value both research and craftsmanship here at Taipei Tech. In addition to investigating new challenges, our researchers emphasize developing complete solutions to meet those challenges. We provide a supportive research environment and encourage researchers from our various research centers, labs, and faculties to work across disciplines to solve problems that the world is currently facing. We have recently set up the Frontier Institute of Research for Science and Technology (FIRST), an integrated platform for research and academic exchange, aiming to work closely with the industry on developing state-of-the-art technology and cultivating forward-thinking talent. Taipei Tech has always been a strong research partner for many leading enterprises and businesses in Taiwan, participating in numerous technology transfers each year, and has co-established several advanced research and development centers.

## DISTINGUISHED INDUSTRY-ACADEMIC COOPERATION

Taipei Tech faculty members have been awarded the National Award for Distinguished Contribution to Industry-Academic Cooperation for four consecutive years. The recipients include:



Hu Shih-cheng (2022), Distinguished Professor of Energy and Refrigerating Air-Conditioning Engineering Department



Wang Sea-fue (2021), Taipei Tech President and Chair Professor of Materials and Mineral Resources Engineering Department



Rwei Syang-Peng (2020), Distinguished Professor of Molecular Science and Engineering Department



Lai Yen-Shin (2019), Chair Professor of Electrical Engineering Department

## PROFESSIONAL ANESTHESIA ASSESSMENT APP

A team of Taipei Tech researchers collaborated with National Taiwan University Hospital (NTUH) to develop a professional anesthesia assessment app, EVAN2, which was awarded the 2022 iF Design Award. The app helps anesthesiologists monitor patients' vital signs during surgery, enhancing the safety and efficiency of anesthesia.



## KEY RESEARCH CENTERS



### CITY SCIENCE LAB @ TAIPEI TECH

The City Science Lab at Taipei Tech is a cross-disciplinary R&D and teaching laboratory, jointly established by the Massachusetts Institute of Technology (MIT) and Taipei Tech. The laboratory focuses on a variety of scientific and technological subjects in its collaborative research projects, including information science, electronics, mechanical and materials engineering, architecture, biology, and design. The aim of the laboratory is to become a world-class international platform for technology and talent exchange.

### TAIPEI TECH-AUO JOINT RESEARCH CENTER

Taipei Tech and world-renowned display panel manufacturer AU Optronics (AUO) partnered to establish a joint research center, focusing on smart manufacturing technology. The collaborative projects range from developing image recognition, process optimization, alarm equipment, virtual reality integration, and barrier-free mobility solutions, to AI-enabled voice feedback, autonomous mobile robots, and collaborative robot systems.



### SMART TEXTILE TECHNOLOGY RESEARCH CENTER

Taiwan's textile industry accounts for 70% of the world's functional fabric production, making it one of the top functional textile-producing countries. The Smart Textile Technology Research Center spearheads the research and development of functional textiles in Taiwan. The Center focuses its research on wrinkle-resistant, flexible, and breathable materials, which are crucial features of multi-functional textiles. The research results of the center have been widely applied in the apparel industry.



# A Global University with Local Commitments



**381**

partner universities across forty-seven countries



**1,090**

international students in more than sixty program

Taipei Tech is a global university. It has partnerships with top institutions around the world. There are more than 1,000 international students from sixty-six countries studying at Taipei Tech, and we seek every opportunity to send our students abroad to study and to participate in international events. Taipei Tech is also a university dedicated to local development and social responsibility. We have implemented many programs to provide resources for underprivileged groups in Taiwan. By incorporating social issues into professional courses and using actual field cases as the basis for project proposals related to economic development, cultural heritage, educational care, and environmental protection, we assist members of the community in facing the challenges of sustainable development and developing action plans to overcome them.



**Jorge Sanchez (PhD Manufacturing Technology)** comes from Honduras. His research focuses on the fabrication of thin films and 3D structures by supercritical-fluid-enhanced electroplating process for applications in the semiconductor industry, and he has published over ten papers in peer-reviewed international journals. He is currently working as a production technology engineer in Chicony Power, a Taiwanese company that specializes in power supply and LED lighting.

## STUDENT EXCHANGE AND DUAL DEGREE

Having more than 380 partner universities has enabled an average of 400 inbound and outbound student exchanges every year. We have partnerships with top institutions around the world, including dual degree and lab collaboration programs with universities in Australia, Germany, Italy, Japan, Malaysia, Thailand, the U.K., and the U.S.A., making international degrees accessible to our students.

## INTERNATIONAL PBL COLLABORATION

To equip students with critical problem-solving skills and enable them to use their knowledge in multicultural and multilingual environments, Taipei Tech has implemented Problem-Based Learning (PBL) collaboration projects with global partner institutes, sending students abroad and teaming up with students from other countries to compete in PBL contests. We also hold PBL workshops for students to participate in cross-disciplinary, cross-school, and cross-field projects targeting practical problems faced by various industries.

## SOCIAL RESPONSIBILITY & SUSTAINABLE DEVELOPMENT

Taipei Tech is committed to social responsibility and the promotion of sustainable development. The social responsibility of the University and the UN Sustainable Development Goals (SDGs) have been incorporated into Taipei Tech's medium- and long-term plans as key initiatives. We actively engage our teachers and students in university social responsibility practices, and have set up the Institutional Research and Sustainability Development Center to further promote SDG education.

Our faculty members and students have been engaged in several projects in senior care, circular economics, and cultural and industry revitalization in rural areas. Some recent projects include the planning of senior-friendly communities, deploying a water quality monitoring system in the clam farming ponds in Kouhu Township, building a smart cold chain system with the Quri Indigenous Community, and revitalizing and preserving the heritage of the woodworking industry in Fengyuan District.



Taipei Tech professors and students, along with industry partner, Flutai Co., collaborate with Quri Indigenous Community to build a smart cold chain system to cope with the problem of electricity outages faced by remote communities.

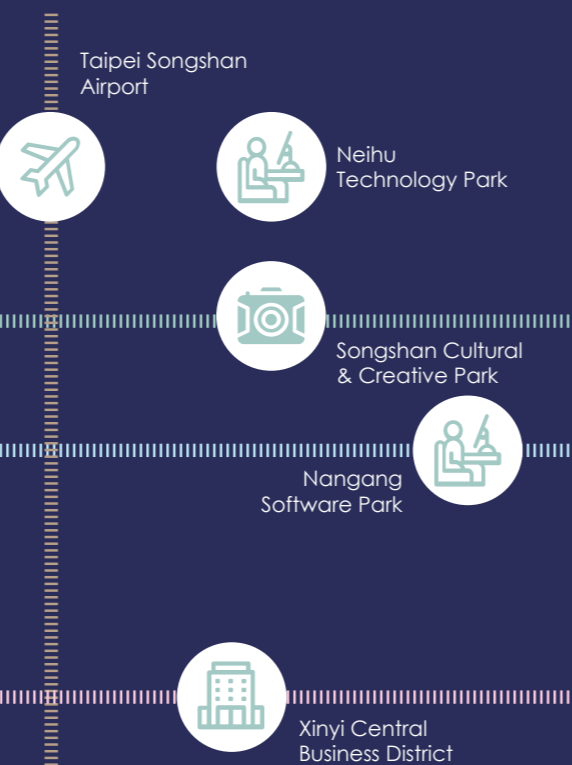


Taipei Tech is involved in cultivating innovative talent in the traditional woodworking industry, facilitating woodworking education and preserving craftsmanship.

# In the Heart of Taipei



Taipei is the economic, educational, technological, and cultural center of Taiwan. Considered to be a global city and a major hub in East Asia, Taipei is well connected to major cities throughout the world and all parts of the island. Being the core of the Taipei-Keelung metropolitan area, Taipei has enjoyed recent growth in industries such as information and communications technology, biotechnology, general merchandising, financial services, tourism, and exhibition industries. Taipei Tech is at the center of this bustling city, conveniently located next to the Zhongxiao Xingsheng metro station, and students have easy access to an exceptional amount of resources and opportunities.



# Student Life

## STUDENT COMMUNITY

We have an active and vibrant student community at Taipei Tech. The school has a main student union that voices concerns of the students, and each department has its own student association that hosts freshman welcoming and networking events. In addition to these student associations, clubs are an integral part of student life here at Taipei Tech.

## CROSS-CAMPUS LEARNING RESOURCES

Taipei Tech is part of the University System of Taipei (UST), an alliance of four Taipei-based universities, each renowned for particular fields of study. Through UST course sharing, students of Taipei Tech enjoy a diverse, comprehensive set of elective courses. The UST member schools also share an integrated library system, where students and faculty can loan and return books with their university ID card.

## SPORTS

There are several school sports events hosted throughout the year. Our students also compete in men's basketball, women's basketball, volleyball, table tennis, badminton, tennis, and soccer in national university leagues. Taipei Tech has many kinds of sports venue that students can use. In addition to on-campus sports venues, students also have access to many sports centers operated by Taipei City.

## WELLBEING SUPPORT

Drawing from the tradition of apprenticeship, Taipei Tech employs a mentor system that helps faculty members have better understanding of students and gives students quicker access to help. Taipei Tech also has the Office of Student Affairs dedicated to the wellbeing and safety of our students. Students may report any kind of problems to the office and seek help from any of the consultants in the Student Consultation Center.

# Prepared for Multiple Career Options

Our programs highlight problem-based learning and are integrated with student's internship. Students not only learn their domain knowledge but also acquire skills that they can easily transfer and apply elsewhere. Our graduates are consequently flexible and ready to take on different kinds of challenges. Our students become both highly employable and very capable of pursuing their own independent endeavors.



1<sup>st</sup>

most employable graduates among technological universities in Taiwan (2022)

## INTERNSHIP

Internships are an integral part of our programs here at Taipei Tech. We host an annual internship fair in which students interview for internships. We are also well-connected to the industry and connect our students to advice, companies, and other resources to give them an edge in the job market.

## JOB INFORMATION & JOB FAIR

Our Internship and Career Consulting office constantly receives and posts job information through the university website and other social media channels. A job fair is hosted on campus each year, with an average of six thousand jobs on offer. Many of Taiwan's top local and global companies use this opportunity to secure their future employees.

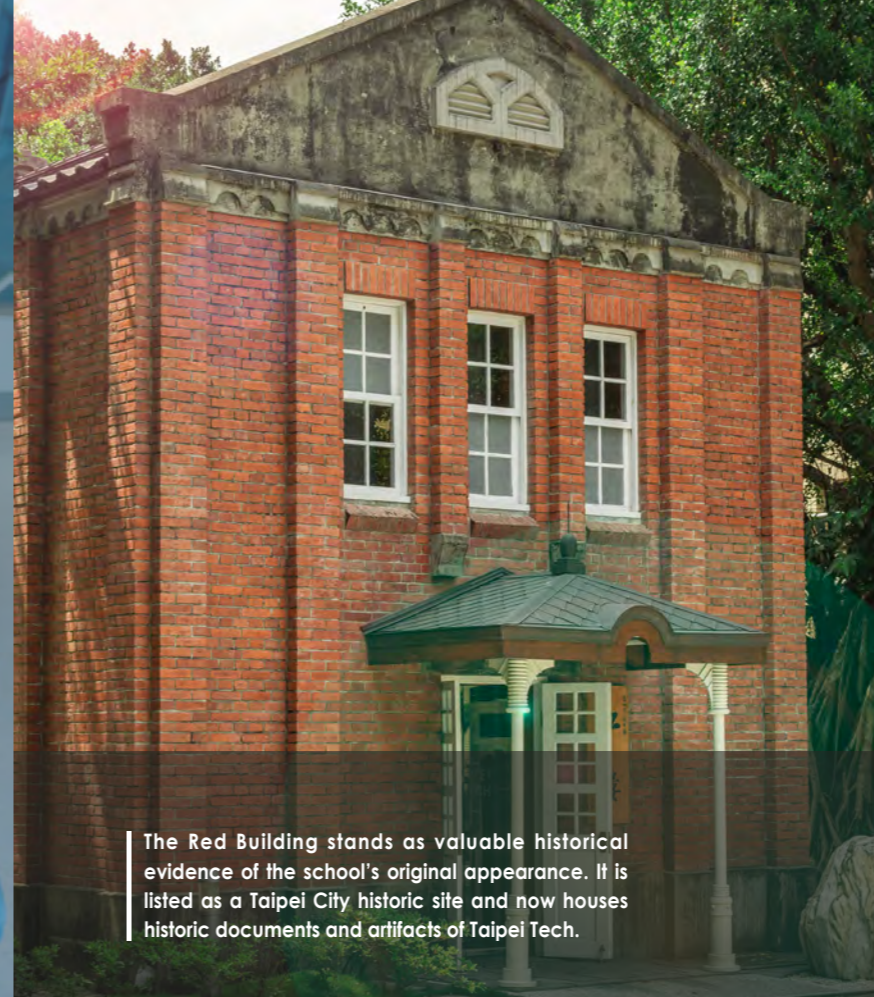
## ALUMNI COMMUNITY

Taipei Tech has an extraordinary community of alumni that are well respected in their fields and in the entrepreneur community. Through these networks, Taipei Tech is able to provide additional resources to help our students turn their plans to reality. Our alumni also frequently return to give workshops and talks and to mentor our students.



**Margaret Wu**

Margaret Wu, Taipei Tech Honorary alumnus and industrial chemist, was elected the inductee of 2020 National Inventors Hall of Fame (NIHF). She is the former Senior Scientific Adviser of ExxonMobil Research and Engineering Company, and now the first NIHF inductee coming from Taiwan. One of Wu's major commercialized research is the synthetic material trademarked as SuperSyn, used to produce the world-famous Mobil 1 motor oil.



The Red Building stands as valuable historical evidence of the school's original appearance. It is listed as a Taipei City historic site and now houses historic documents and artifacts of Taipei Tech.

# More than Tech - Arts and Culture in Taipei Tech



The old Zhongxiao East Road underpass was renovated in 2022. In addition to serving as a safer and more convenient passageway for our students and faculty members, the underpass has also been transformed into an art display space, showcasing the history and future prospects of Taipei Tech.



The Arts and Cultural Center regularly hosts all kinds of events and exhibitions, including concerts, student graduation shows, and curated exhibitions that demonstrate the best of Taiwanese artistry.



Taipei Tech students and teachers of General Education Center worked with Houtong Kuangong Historical Museum and New Taipei City Gold Museum to hold the screening of A Ramble in Houtong Coal Town, a documentary capturing the history of the Houtong region's coal mining industry, celebrating last-generation miners and local culture.

# College of Mechanical and Electrical Engineering

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 🏠 Room 703, Integrated Technology Complex

The College of Mechanical and Electrical Engineering of Taipei Tech focuses on mechatronics, advanced manufacturing processes, autonomous and green vehicles, sustainable energy and refrigeration techniques, and smart rail technology. Our advanced development in mechatronics technology, automatic engineering, green vehicles, and refrigeration technology has made us one of the leaders in education and research in these fields. We aim to cultivate competitive, innovative individuals, a long-term global perspective, and entrepreneurship using the applied technologies of mechanical and electrical engineering.

We offer a range of courses on fundamental and practical subjects, covering both theoretical and problem-based learning to prepare students for their future careers. To enhance students' standing and competitive advantage in the international job market, our college assists students in forming international student associations, allowing them to actively engage in international learning programs, such as visits to affiliated schools, participate in international technical competitions and overseas practical training, become exchange students, and enter dual degree programs with affiliated schools.

## WHAT STUDENTS LEARN HERE

- Automatic control systems and design, mechatronics engineering, semiconductor devices, micro-opto-electro-mechanical systems, precision machinery, thin films, and nanotechnology
- Refrigeration and air-conditioning technology, energy technology, technological process environments and energy, energy-conserving online smart monitoring technology
- Advanced energy and power systems, vibration and noise abatement technology, vehicle design and analysis, smart automotive security systems, CFD in automotive applications
- Medical mechatronics systems, nanotechnology measuring systems, precision optical inspection, machine vision and image processing

Program Offered	BS	MS	PhD
Mechanical Engineering	•		
Vehicle Engineering	•	•	
Energy and Refrigerating Air-Conditioning Engineering	•	•	•
Mechatronic Engineering		•	
Manufacturing Technology		•	•
Automation Technology		•	
Mechanical and Electrical Engineering Doctoral Program			•
International Master's Program in Mechanical Engineering and Automation		•	
International Graduate Program in CMEE			•
International Master's Program in Energy Refrigerating Air Conditioning & Vehicle Engineering		•	
Intelligent Automation Engineering	College Diploma		

## CURRENT AREAS OF RESEARCH

- Semiconductor manufacturing processes and equipment
- Renewable and clean energy
- Energy conservation
- Mechatronics instrumentation
- Additive manufacturing
- Autonomous vehicles
- Industrial robotics
- Biomedical transducers
- Smart rail technology

## NOTABLE ACHIEVEMENTS

- 2022 Distinguished Professor Shih-Cheng Hu received the National Award for Distinguished Contribution to Industry-Academia Cooperation
- 2022 In the 2022 World Skill Competition, Chia-Cheng Tien won the gold medal in Refrigeration & Air-conditioning, Tai-Yu Chen won the bronze medal in Plumbing & Heating, Bo-Da Chen won the bronze award in Autobody Repair, and Yu-An Chiang won a medallion for Excellence in Welding
- 2022 Honor Seiki Co., run by Mr. Song-Tien Chen, alumnus of Department of Mechanical Engineering, won the 31st National Award of Outstanding SMEs
- 2022 The Smart Rail Research Team received more than NT\$80 million in funding from the Ministry of Transportation to develop pantographs and a train control and management system (TCMS) for a light rail transportation system

## TIMELINE

- 1914 Mechanical engineering
- 1961 Vehicle engineering
- 1964 Energy and refrigerating airconditioning engineering
- 1991 The graduate institute of automation technology
- 1999 The graduate institute of manufacturing technology
- 1999 College of mechanical and electrical engineering
- 2018 Intelligent automation engineering

## CMEE TODAY

- 1,000+ undergraduate students
- 500+ graduate students
- 110+ international students
- 95% graduate employment rate

## NOTABLE ALUMNI

- Lin Bao-Zhang** Founder and Chief Strategy Officer, INTAI Technology Corp., received Taipei Tech honorary doctorate in 2022
- Chang Hong-Chia** Chairman, Holmsgreen Group, received Taipei Tech honorary doctorate in 2021



# College of Electrical Engineering and Computer Science

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☎ 886-2-2771-2171 ext.6202

📠 886-2-2772-6133

🏠 Room 108, Integrated Technology Complex

To enhance students' competitiveness, the College of Electrical Engineering and Computer Science fosters practical research talent and trains outstanding entrepreneurs in the fields of electrical engineering, electronic engineering, electro-optical engineering, and computer science. We emphasize complete professional knowledge, as well as the importance of cross-disciplinary education, communications training, coordinated management capabilities, an international mindset, the ability to self-learn, and workplace ethics. We provide students and faculty members with substantial resources, allowing us to cultivate future talent with exceptional skills in research and development, innovation, and leadership, who can greatly contribute to society.

## WHAT STUDENTS LEARN HERE

- Power systems, intelligent control, power distribution engineering, wireless communication systems, illumination engineering design, and power electronics technologies for offshore wind farms
- High-frequency electronic circuits, digital communication systems, FPGA system design, medical electronics design, and integrated circuit design for power electronics applications
- Digital image processing, iOS app development, mobile application development technology, and computational biology and medical informatics
- Biomedical optics, fiberoptic communications, optical sensor technology, flat panel displays, integrated optics, nano photonics, and laser engineering
- Optical engineering, optoelectronic materials and devices, flat panel displays, and optical communications

Program Offered	BS	MS	PhD
Electrical Engineering	●	●	●
Electronic Engineering	●	●	●
Computer Science and Information Engineering	●	●	●
Electro-Optical Engineering	●	●	●
International Graduate Program in EECS	●	●	●
Graduate Institute of Aerospace and System Engineering		●	

## OBJECTIVES

- To provide students with sound and solid knowledge in the professional disciplines of electrical engineering, electronic engineering, electrooptical engineering, and computer science & information engineering, along with the required supporting knowledge in mathematics and science, as well as a liberal education
- To equip students with the skills needed to design experimental systems, solve research problems, and organize and present information in an effective and efficient manner
- To train our students to be future leaders in academia, government, and industry, and have a deep awareness of ethical responsibilities to our profession and society
- To emphasize multidisciplinary and international activities in our teaching and research
- To sustain a friendly, supportive, and diverse environment so as to facilitate all our students, faculty, and staff achieving excellence in academic research and university-industry cooperation

## NOTABLE ACHIEVEMENTS

- 2022 Chair Professor Yo-Ping Huang received the Internet of Things Innovative Application Award from the Pan Wen-Yuan Cultural and Educational Foundation
- 2021 Chair Professor Yen-Shin Lai received the Power Electronics Outstanding Contribution Award and the Journal of Engineering and Selected Topics in Power Electronics Editor's Award
- 2021 Chair Professor Yo-Ping Huang received the Outstanding Information Talent Award, the Outstanding Engineering Professor Award from the Chinese Society of Engineers, and the 110th Annual Outstanding Research Award from the Ministry of Science and Technology
- 2021 Associate Professor Yu-Chieh Cheng received the 19th Far Eastern Y. Z. Hsu Science and Technology Paper Award
- 2021 Distinguished Professor Yi-Jun Jen served as chairman of the Optical Society of America (OSA) Thin Film Technology Team

## TIMELINE

- 1948 Electrical engineering
- 1948 Electronic engineering
- 1986 Electro-optical engineering
- 2000 Computer science and information engineering
- 2006 College of electrical engineering and computer science

## CEECS TODAY

- 1,500+ undergraduate students
- 970+ graduate students
- 100+ international students
- 97% graduate employment rate

## NOTABLE ALUMNI

- Lin Hong-Yu Chairperson of Sunlight Electronic Laboratory
- Yeh Jintai Founder of RITEK Corporation
- Song Gong-Yuan Chairperson of LITE-ON GROUP
- Yeh Yin-Fu Founder of Everlight Electronics Co., Ltd.
- Yeh I-Hau Chairperson of Elan Microelectronics Corp.
- Tung Tzu-Hsien General Manager of Gigabyte Technology Co., Ltd.
- Richard Ma Founder of RITEK Corporation
- Cho Huo-Tu Co-founder of HTC
- Tsai Duei Former Minister of Transportation and Communications

# College of Engineering

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Program Offered	BS	MS	PhD
Biochemical and Biomedical Engineering		●	
Chemical Engineering and Biotechnology	●	●	●
Civil Engineering	●	●	●
Environmental Engineering and Management		●	●
Materials and Mineral Resources Engineering	●		
Material Science and Engineering		●	●
Mineral Resources Engineering		●	●
Molecular Science and Engineering	●	●	●
International Graduate Program in Energy and Optoelectronic Materials			●

## CURRENT RESEARCH CENTERS

- Disaster Prevention Center
- Research and Development Center For Smart Textile Technology
- Chemical Material Analysis Research
- Medical Engineering Research Team / Multidisciplinary Technology / Metro Taipei (MT3)
- Center of EMO Materials and Nanotechnology
- Recycling-Oriented Environment Research Center
- Indoor Environment Quality Research Center
- Sustainable Innovation and Assessment Center
- Water Environment Research Center
- Center for Research on Structural and Material Engineering
- Precision Analysis and Materials Research Center
- Accelerator For Happiness & Health Industry
- Advanced Materials Research Center
- Research Center of Advanced Material and Smart Devices
- Geopolymer Technology Research Center

## NOTABLE ACHIEVEMENTS

- 2022 Professor Li Y.F., Lee W.H., and Cheng T.W.'s Geopolymer Bricks from Recycled PCB Wastes won first prize at Taiwan Innotech Expo 2022
- 2022 Professor Lee W.H. and Shao W.C. won Asia's 2nd Cradle-to-Cradle Certificate with their Geopolymer Bricks made with pressurized shells
- 2022 Distinguished Professor Thomas C.K. Yang received an honorary doctorate from Vilnius University
- 2022 The Water Environment Research Center won the TSAA Award for their research with the EPA on Multifunctional Smart Moistured Garden
- 2022 Research Center of Offshore Wind Power Engineering established to promote offshore wind energy technologies in Taiwan
- 2021 College of Engineering is one of the few elite colleges granted to widely implement EMI courses and bilingual education, striving to provide global environment to our students.

## WHAT STUDENTS LEARN HERE

- Civil and Disaster Prevention Engineering emphasizes structures, materials, geotechnical engineering, architecture, ecological engineering, and disaster prevention management.
- Materials Science and Engineering focuses on the composition, microstructure, and processing of metals, ceramics, and their composites, for applications in electro-optics, biomaterials, energy, and nanomaterials.
- Molecular Science and Engineering focuses on organic, polymeric, optoelectronic polymer, bio-medical, and aerospace materials.
- Chemical Engineering focuses on separation processes, nanomaterials and nanotechnology, fine chemicals, electrochemistry, cleaner production, semiconductor manufacturing and process engineering.
- Biotechnology focuses on biochemical engineering, gene engineering, and bio-information.
- Environmental Engineering and Management researches environmental pollution and control technology, resource circulation and environmental sustainability, and sustainable system engineering and management.
- Mineral Resources Engineering covers the development of resources and geological engineering, resources applications and synthesis of materials, and the processing of resources and materials.

The College of Engineering is committed to delivering a high-tech education and research portfolio, providing a full and dynamic university experience, distinctive in character, and to pursuing strong industrial links to practical knowledge. The College cultivates advanced specialists with both theoretical and practical skills in chemical engineering, biochemical and biomedical engineering, molecular science and engineering, materials and mineral resources engineering, civil and disaster prevention engineering, and environmental engineering and management areas.

## TIMELINE

- 1912 Civil engineering
- 1917 Molecular science and engineering
- 1918 Chemical engineering and biotechnology
- 1937 Materials and mineral resources engineering
- 1999 College of engineering
- 2000 Environment engineering and management

## CE TODAY

- 1,600+ undergraduate students
- 1,000+ graduate students
- 110+ international students
- 95% graduate employment rate

## NOTABLE ALUMNI

- Wang Sea-Fue** Chair Professor and recipient of 2022 National Distinguished Contribution to Industry-Academia Cooperation
- Rwei Syang-Peng** Chair Professor and recipient of 2021 National Distinguished Contribution to Industry-Academia Cooperation
- Sung Yu-chi** Recipient of 2022 Outstanding Contribution Award in Civil Engineering Education
- Lee Yi-Fa** Chairman of Chant Oil Co. Ltd, conferred honorary doctorate by Taipei Tech in 2021

# College of Management

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 ☎ 886-2-2771-2171 ext.4542  
 📠 886-2-2776-3996  
 🏠 Room 841, Technology Building

The College of Management focuses on management science, including financial and marketing management, production management and manufacturing strategies, e-industry management, information and financial management, and technology services and innovation management. Students also become proficient in intellectual property rights and technology laws, and familiar with other critical knowledge of industrial and business enterprises. We established the Innovation and Entrepreneurship Development Center, the RFID (radio frequency identification) Application Research Center, and the FinTech Lab; all of these have engaged students in cooperation, research, and services with industry, government, and academic institutions.

We aim to cultivate high-level managers with an international outlook in all directions that integrates smart manufacturing, financial technology, innovation and entrepreneurship, and big data analysis. We continuously maintain AACSB accreditation, recruit professors with international backgrounds, and are expanding recruitment of international students, in order to provide an internationalized learning environment and promote international academic exchange and cooperation.

Program Offered	BA	MA	PhD
Industrial Engineering and Management	●	●	●
Business Management	●	●	
Information and Finance Management	●	●	
PhD Program in Management			●
EMBA		●	
International Master's Program in Business Administration		●	

## WHAT STUDENTS LEARN HERE

- Quality control, e-commerce, Internet of things, project management, system simulation, supply chain management, and TRIZ problem solving methods
- Internet marketing, investment, international financial management, strategic management, risk management, customer relationship management, enterprise resource planning, and business law
- Demand forecasting and inventory, blockchain, cryptocurrency portfolio diversification, and big data analysis

## NOTABLE ACHIEVEMENTS

- 2021 Three professors from the Department of Industrial Engineering and Management were listed in the 2021 World's Top 2% Scientists issued by Stanford University
- 2021 Students from the College of Management teamed up with students from California State University to participate in the SourceAmerica Design Challenge, and won first and second place
- 2021 The College of Management was approved by the Ministry of Education to widely implement bilingual education and EMI courses.
- 2020 Students from College of Management won the gold medal at the Moscow International Salon of Industrial Property, "Archimedes".
- 2019 The College of Management officially obtained AACSB accreditation, becoming one of the top business schools worldwide

## TIMELINE

- 1963 Industrial engineering and management
- 1998 Business management
- 1999 College of management
- 2009 IMBA Program
- 2010 EMBA Program
- 2018 IMFI Program

## CM TODAY

- 900+ undergraduate students
- 800+ graduate students
- 100+ international students
- 95% graduate employment rate

## NOTABLE ALUMNI

- Shen Rong-Jin Vice Premier of the Executive Yuan
- Lin Chuan-Neng Administrative Deputy Minister of the Ministry of Economic Affairs
- Peng Shuang-Lang Chairman of AUO Corporation
- Tseng Kuo-Hua General Manager of Chicony Power Technology

# College of Design

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- ☎ 886-2-2771-2171 ext.4562
- 📠 886-2-2776-5102
- 🏠 Room 651-1, Design Building

The College of Design aims to create healthy and sustainable surroundings. Our development encompasses a wide range of design fields, including commercial products, furniture, interior spaces, architecture, landscapes, houses, communities, urban planning, and interactive media applications. We provide hands-on education that aims to nourish professionals and equip them with knowledge pertinent to design theory and design practice. Besides a fundamental training in theories and skills, we prepare our students for creative industries through design competitions, project practice, off-campus internships, University Social Responsibility (USR) projects, and the teaching practice research program.

In recent years, our research has focused on the fields of smart cities, age-friendly cities, landscape architecture, urban planning and regeneration, smart and healthy buildings, innovative green building materials, cultural spaces, woodcraft cultural and creative industries, ergonomic design, universal design, medical assistive device design, smart living, human-machine interfaces, virtual reality (VR), augmented reality (AR), interactive art, and Metaverse XR.

Program Offered	BS	MDes	PhD
Industrial Design	●	●	
Architecture	●	● (MS)	
Interaction Design	●	●	
Doctoral Program in Design			●
International Program of Interaction Design and Innovation	●	●	

## WHAT STUDENTS LEARN HERE

- Product design, interior design, furniture design, engineering materials, and user experience design
- Architectural design and drawing, urban design, green building, environmental management, site planning, community planning, construction management, USR for indigenous tribes
- Virtual reality (VR), augmented reality (AR), dynamic web programming, and postproduction

## NOTABLE ACHIEVEMENTS

- 2022 The Taipei Tech Metaverse XR Research Center was established, serving as Taiwan's first R&D center for metaverse and extended reality
- 2022 The Department of Industrial Design developed a professional anesthesia assessment app with National Taiwan University Hospital, and the app was awarded the iF Design Award. It was the first university-hospital cooperative project in Taiwan to win the iF Award
- 2022 CHEERS Magazine released the result of 2022 Enterprises' Most Favorite College Student Survey; Taipei Tech ranked No.1 in the Design/Architecture category
- 2021 Two University Social Responsibility (USR) projects implemented by the College of Design received the University Social Responsibility - Best Model Award in the Local Inclusion category, and the TSAA Taiwan Sustainable Action Gold Award in the SDGs 4 Education Quality category.
- 2020 A PhD student of the Doctoral Program in Design and a student of the master's program of the Department of Industrial Design were awarded the Outstanding Technical and Vocational Education Award for their excellent academic performance

## TIMELINE

- 1912 Industrial engineering and management
- 1912 Business management
- 2001 College of management
- 2009 IMBA Program

## CD TODAY

- 1,100+ undergraduate students
- 600+ graduate students
- 30+ international students
- 95% graduate employment rate

## NOTABLE ALUMNI

- Chen Guodong** Chairman, Taiwan Toy & Children's Article Manufacturers Association
- Huang Xiang-Long** Architect
- Wei Li Liao** Architect
- Wang Hsiao-Shen** President, Honghua Construction Co., Ltd.
- Xiao Jiafu** Architect
- Yeh Han-Hsiang** President, Jan Da Construction Co., Ltd.
- Zhong Hongzhi** President, Yuen Foong Yu Industrial Paper Co., Ltd.

# College of Humanities and Social Sciences

✉ msuallan@ntut.edu.tw  
 ☎ 886-2-2771-2171 ext.4583  
 📠 886-2-2776-5055  
 🏠 Room 511, General Studies Building

The Taipei Tech College of Humanities and Social Sciences unites focused, practical training with opportunities for critical thinking, creative exploration, and cultural studies. Students gain skills in leadership, in effective written and oral communication, and in thorough and ethical research. These skills are adaptable to a wide range of careers in business, education and academia, journalism, writing and publishing, government, and cultural fields. Many of our graduates also join the forefront of academic research and human resources cultivation in the fields of technological and vocational education. They are experts in English teaching, research, and course praxis. The College of Humanities and Social Sciences is also an engine for cultivating elite talent in cross-field intellectual property, as well as an incubator for cultural and creative industries. Based on the ideals of holistic education, we aim to train and cultivate culturally literate professionals with macro-vision.

## WHAT STUDENTS LEARN HERE

- Adult and vocational education, organizational theory and management, psychology of learning, pedagogy, and school administration
- English presentation skills, English and American literature, professional writing, applied linguistics, translation and interpretation, research methods, global English, and cultural studies
- International intellectual property law, fair trade acts, application processes for technological patents, e-commerce regulations and policies
- History of literature, history of aesthetics and arts, artifact studies, East Asian calligraphy, digital archives management, and Taiwanese culture

Program Offered	BA	MA	PhD
English	•	•	
Cultural Vocation Development	•	•	
Intellectual Property		•	
Technological and Vocational Education		•	•

## OBJECTIVES

- To combine practical training, creative thinking, and sustained intellectual inquiry
- To be the benchmark of technological education in Taiwan
- To make students globally competitive through a thorough grounding in literary and cultural studies, foreign-language skills, critical thinking, professional writing and speaking, and cross-cultural communication
- To pursue research questions and problem solving with integrity and respect for intellectual property
- To embrace best practices in technology while maintaining our values
- To gain a foothold in industries, including but not limited to cultural and creative industries, by demonstrating the value of a global and interdisciplinary humanities education for the leaders, idea-generators, and problem solvers of tomorrow
- To foster curiosity, independent thinking, and a passion for life-long learning

## NOTABLE ACHIEVEMENTS

- 2022 Launched collaborative talks with the Pennsylvania State University and TSMC to design a developmental blueprint for the implementation of the bilingual nation policy by 2030
- 2021 Graduate student Huang Kuo-Cheng won Honorable Mention for his research paper on intellectual property rights sponsored by the Asia Pacific Intellectual Property Association
- 2021 Graduate student Lin-Yan-Kuo won First Prize in the Mechanical Category at the Inter-Collegiate Patent Search Competition
- 2021 NTUT Journal of Intellectual Property Law and Management Vol. 11 No. 1 was published in June 2022. The Journal has been Scopus-indexed since June 2015.
- 2021 Students Cheng Ting-Wen and Matsutori Kazumi won Second Prize in the Trends and Fashion Design Category at the Inter-Collegiate Research Project Competition
- 2020 Students of the Department of Cultural Vocation Development won Second and Third Prize at the International Times Young Creative Awards

## INTERNATIONAL CONFERENCE AND EVENTS

- 2022 APEC Forum on Entrepreneurship for the Future of Work: Accelerating Regional Economic Recovery and Digital Inclusion for Women and Youth in the Post-Pandemic Era
- 2022 APEC Forum on Student Mobility and Innovative Education in the Post-Pandemic Era
- 2022 APEC TVET Workshop on Success Models of Sustainable and Circular Economy: Green Manufacturing and Intelligent Public transport
- 2022 Youth Training Program and Model APEC SOM
- 2022 APEC Digital Economy and Innovative Entrepreneurship Online Forum: Enhancing Inclusive Participation and Digital Upskilling for Youth

## TIMELINE

- 1998 Technological and vocational education
- 1999 College of humanities and social sciences
- 1999 English
- 2011 Intellectual property
- 2011 Cultural vocation development

## CHASS TODAY

- 380+ undergraduate students
- 380+ graduate students
- 20+ international students
- 92% graduate employment rate

## FACULTY HONORS

- Dr. Shawn Chang** Golden Bell Award (Taiwan's annual television and radio production award) on Innovation, Research, Development and Applications
- Dr. Eric Lin** Wu Ta-You Memorial Award (Taiwan's most prolific outstanding young researcher award) on the topic of multimodal corpora and gesture production / Model Educational Internship Advisor Award
- Dr. Wang Yihui** Her ceramics work, Self-Representations 07, was chosen to be showcased at the "50 Women: A Celebration of Women's Contribution to Ceramics International Exhibition" in the U.S.

# iFirst College

✉ [img9221132@ntut.edu.tw](mailto:img9221132@ntut.edu.tw)

☎ 886-2-2771-2171 ext.1071

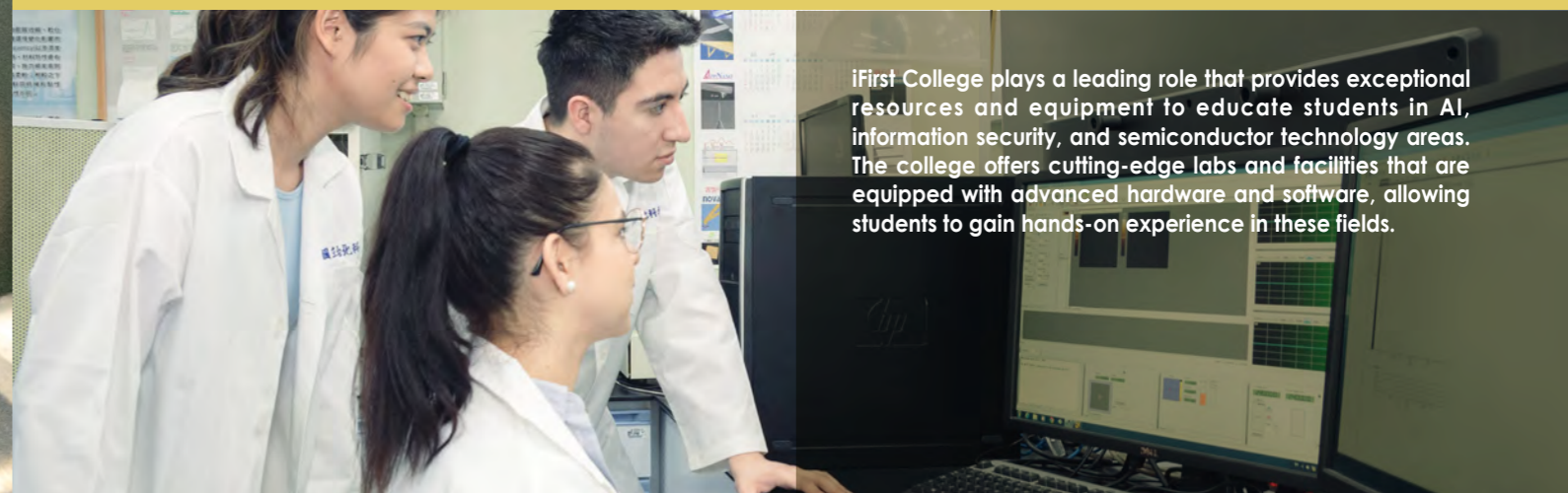
🏠 Room 1323, Pioneer International R&D Building

The iFIRST College is the education branch of the newly established Frontier Institute of Research for Science and Technology (FIRST). FIRST is a platform for research and academic exchange between the University and the industry; it brings together industry research capacity and the faculty of six professional colleges, links previously formed industry research platforms, and actively expands the cooperative research relationship between relevant industry-university-research institutions, to establish enterprise alliances. The iFIRST College will take advantage of FIRST's industry-university cooperative platform to provide education programs that teach high-demand, high-mobility skills. The iFIRST College emphasizes the key focuses of Taipei Tech, such as artificial intelligence, information security, and semiconductors, and puts great emphasis on hands-on training, internships, and practical problem-solving skills.

Program Offered	BS	MS	PhD
Artificial Intelligence Technology		●	●
Information Security		●	●
Semiconductor Technology Program	Credit Program		

## OBJECTIVES

- To build up cross-field, cross-industry and cross-border learning environment
- To provide interdisciplinary programs that allow innovative ideas to flourish
- To keep program materials up-to-date for students to stay current with the evolving market trend
- To equip students with high-level scientific and technological capability, entrepreneurship concept and innovative thinking



iFirst College plays a leading role that provides exceptional resources and equipment to educate students in AI, information security, and semiconductor technology areas. The college offers cutting-edge labs and facilities that are equipped with advanced hardware and software, allowing students to gain hands-on experience in these fields.



iFirst College is located in a newly-built research building on campus, providing an ideal environment for learning. The modern facilities offer state-of-the-art classrooms, study areas and equipment. Its comfortable and spacious surroundings make it an excellent place for students to concentrate, collaborate, and excel in their studies.



With a team of experienced and knowledgeable faculty members, students receive personalized guidance and instruction. The college also provides opportunities for research and collaboration with industry experts, which prepares students for successful careers in these rapidly evolving fields.



# How to Apply



Visit the Office of International Affairs (OIA) website [www.oia.ntut.edu.tw](http://www.oia.ntut.edu.tw) to apply online or to get more information about international student admission.



## ADMISSION

### Tuition

The tuition for one semester (two semesters in one year) ranges from TWD\$45,000 – 70,000 (USD\$1,500–2,300).

### Dormitory

The cost for the student dormitory is around TWD\$9,000–11,000 (USD\$300–360) per person and per semester.

### Health Insurance

The cost for health insurance is between TWD\$500–750 (USD\$16–24) per month depending on your eligibility for Taiwan's National Health Insurance.

### Scholarships

Scholarships are available for degree-seeking students at Taipei Tech, whose citizenships are outside Taiwan, Hong Kong, Macau, and China.



## ENTRY PREREQUISITES

### Applicant's academic credentials



Applicants must have graduated from a high school, college/ university, or an educational institute that is either certified by Taiwan's MOE or has been accredited by an organization authorized by the government where it is located.



Applicants who apply for an undergraduate program must hold a certificate of graduation obtained from a certified foreign high school; for a master program, an university degree; for a PhD program, a master's degree.



An international student who has been dismissed by any educational institution as a result of unsatisfactory conduct or of a conviction in criminal case proceedings is not permitted to apply for admission to another university or another college within Taipei Tech.



### Student status eligibility check

Visit the OIA website to check the eligibility of application.

### DISCLAIMER

This guide was printed in March 2023, and Taipei Tech has sought to ensure that the information given in this guide is correct at the time of going to press. However, it may be necessary for Taipei Tech to make changes to study options and services described in this guide following publication.



## TUITION & FEES